#### PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference	FOR FURTHER ACT	ION See Form	РСТ/ІРЕА/416				
9135WO/PT							
International application No.	International filing date (	day/month/year)	Priority date (day/month/year)				
PCT/SE2003/001615 20-10-2003			22-10-2002				
International Patent Classification (IPC) of	or national classification an	d IPC					
H01B 9/02, C08K 3/00							
Applicant							
ABB Research Ltd et a	.1						
ABB Research Ltd et a							
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>							
2. This REPORT consists of a total	of 3 sheets,	including this cove	r shœt.				
This report is also accompanied by ANNEXES, comprising:							
	•						
		<del></del>	sheets, as follows:				
and/or sheets	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
		ut which this Autho	rity considers contain an amendment that goes				
beyond the di	isclosure in the internations		xd, as indicated in item 4 of Box No. I and the				
Supplementa	l Box.						
b. (sent to the Internation	o <i>nal Bureau only)</i> a total of	(indicate type and	number of electronic carrier(s))				
			and/or tables related thereto, in computer				
readable form only, a Administrative Instru		ental Box Relating	to Sequence Listing (see Section 802 of the				
4. This report contains indications re	elating to the following iter	ns:					
	f the report						
Box No. II Priority	,						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
<b>!</b>	funity of invention						
I <u></u>	•	25(2)	a manadan da maran aran aran da Arandal				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	documents cited	3					
Box No. VII Certain	defects in the internationa	l application					
Box No. VIII Certain	observations on the intern	ational application					
Date of submission of the demand		Date of completion	of this report				
18-05-2004		02-02-2009	5				
Name and mailing address of the IPEA/SE		Authorized officer					
Patent- och registreringsverket Box 5055							
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Form PCT/IPEA/409 (cover sheet) (January 2004)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001615

Box	No. I	Basis of the report					
1.		egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.					
		This report is based on a translation from the original language into the following language, , which is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))					
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	$\boxtimes$	the international application as originally filed/furnished					
		the description:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the claims:					
		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19					
		pages* as amended (together with any statement) under Article 19 pages* received by this Authority on					
		pages* received by this Authority on					
	П	the drawings:					
	L1	pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
•	lf item	4 applies, some or all of those sheets may be marked "superseded."					

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001615

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

citations and explanations supporting such statement					
1.	Statement				
	Novelty (N)	Claims	1-13		YES
		Claims		]	NO
	Inventive step (IS)	Claims	1-13		YES
		Claims		# Sid	NO .
	Industrial applicability (IA)	Claims	1-13		YES"
	moustilli approachity (171)	Claims	1-13	2.9	NO -
					y <sup>d</sup>

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: JP10116702 A D2: US2002070428 A1

D3: Onneby, C. et al., "Electrical properties of field grading materials influence silicon carbide grain size", Solid Dielectrics, 2001. ISCD '01. Proceedings IEEE 7<sup>th</sup> International Conference, pages 43-45, ISBN:0-7803-6352-3

The cited documents represent the general state of the art. The invention defined in claims 1-13 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed field grading material with a filler of grain size <100 nm. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-13 is novel and is considered to involve an inventive step. The invention is industrially applicable.